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*deduce by time, fluorescent*

# Fluorescent CurtiStrip

FOR EVERY FLUORESCENT NEED

Pages F 6, F 7 & F 8

Pages F 9 & F 10

Page F 11

Pages F 12 & F 13

Pages F 14, F 15, F 16 & F 17

Pages F 18 & F 19

Complete Decorative and Economy Fixtures with Reflectors.

Complete Decorative and Economy Fixtures without Reflectors.

Compact Fluorescent LightStrip.

Supports and Hangers.

Parts for making up Custom-Made Fluorescent CurtiStrip Fixtures.

Fluorescent Industrial Fixtures.

FRANKLIN INSTITUTE  
PHILADELPHIA

Equipment described in this book is listed by Underwriters' Laboratories, Inc.

# FLUORESCENT

# CURTISTRIP

LISTED BY UNDERWRITERS' LABORATORIES, INC.

## APPEARANCE

*The Decorative type* is for exposed-to-view mounting. Smooth flowing lines, tastefully designed end caps, reflector end plates, and the warm Satin Silvertone finish combine to give Fluorescent CurtiStrip fixtures a decorative appearance in the best modern style. *The Economy type*, having plain end caps, open reflector ends, and a rust-resisting plated finish, is for concealed installation and use where a fine finish is not so important. *The Industrial type* is functional in design and finished bright cadmium.

## EFFICIENT DESIGN

The three kinds of Alzak reflectors are the most advanced designs available. Each has a "hump" underneath the lamp to prevent trapping of light, and together they offer the range of characteristics necessary to meet the varied requirements of good lighting practice.

## QUALITY MATERIAL

CurtiStrip channel, which forms a "rigid backbone" in each fixture, is made of 20 gauge cold-rolled steel. The reflectors are carefully processed Alzak aluminum which retains its high light-reflecting efficiency.

## WIRED OR UNWIRED

Fluorescent CurtiStrip fixtures are supplied *wired* or *unwired*.

*Unwired Fixtures* are supplied less ballasts and other control equipment. Fluorescent CurtiStrip has been carefully designed to make wiring and assembly both rapid and natural.

*Wired Fixtures* are supplied with ballast and other control equipment, including starters as specified, and are completely assembled as far as packing will permit. They need only to be unpacked, lamped, and connected to the line.

## CONTROL EQUIPMENT AND THE FLUORESCENT LAMP

The fluorescent lamp is an electric discharge type mercury vapor lamp designed for AC circuits. Ballasts and other control equipment must be used with these lamps. Fluorescent lamps may be operated on DC circuits if special control equipment is used. Consult your lamp dealer.

When fixtures are ordered *unwired*, auxiliaries and control equipment are not supplied but should be ordered from the regular source of electrical supplies. When fixtures are ordered *wired* at factory, ballast, lamp holders, lamp starters, and capacitors (where high power factor is indicated) are supplied.

Fluorescent CurtiStrip fixtures are designed to use all lengths, sizes, and wattages of fluorescent Mazda lamps.

## LAMP DATA

Wt. Gauge	Length	Diameter of Tube	Lumens		(60 cycle) Ballasts
			Daylight	White	
15	18"	1" (T-8)	495	585	110-125 volts
20	24"	1½" (T-12)	760	900	110-125 volts
30	36"	1" (T-8)	1230	1440	110-125 volts 199-216 volts 220-250 volts
40	48"	1½" (T-12)	1800	2120	110-125 volts 199-216 volts 220-250 volts

# *and the Advantages of Fluorescent Lighting*

- 1** Fluorescent lamps produce more light per watt consumed. This makes it possible to use higher intensities with resulting relief from eye-fatigue because seeing is less critical.
- 2** The quality of fluorescent illumination is new — the *Daylight* lamp brings daylight indoors — the colored lamps introduce novel and beautiful color possibilities at high efficiency.
- 3** Approximately 50% less heat is radiated than by incandescent lamps of the same wattage, yet more light is produced. This is of real advantage in connection with air conditioning, or where temperature rise produced by lighting is important. With fluorescent lighting it is possible to have *both* good lighting and comfortable surroundings.

## HOW TO USE FOOT CANDLE CHARTS

Proper planning of Fluorescent CurtiStrip installations will be greatly facilitated by use of the foot candle charts on Pages F 4 and F 5.

These tables of foot candle values have been compiled from extensive tests on all lengths and styles of reflectors. The values for continuous sections are based on 40-watt lamps installed end to end. The number of lamps in a continuous section is considered to be such that additional lamps would not increase the foot candles at the test point.

The values for a continuous section may be used with considerable accuracy if the section extends in both directions beyond the test point a horizontal distance more than one and one-half times the vertical distance from the CurtiStrip to the test plane. For example, for a section more than 12 ft. long, the intensity at a point 4 ft. below the unit and more than 6 ft. from either end (toward the center) will be approximately the value given for a continuous section. The values below the end of a continuous section (at a right angle to the channel center line) will be one-half the values given from the continuous section.

All values are for *White* lamps. For *Daylight* lamps, decrease values in proportion to lamp lumens, which for 40-watt *Daylight* would be approximately 15 per cent.

The charts are based on the lamp lumens given in the table on Page F 2, which are taken from lamp manufacturers' data. For direct lighting a depreciation factor of 75% to 85% is suggested, depending upon local conditions. This means that the foot

candle values over a period of time will be 75% to 85% of those given in the tables.

### USE THE CHARTS TO DETERMINE SPACING

The charts make it easy to select the proper spacing and mounting height for the desired uniformity between individual reflectors on the same channel (if not continuous) or rows of reflectors on parallel channels.

The values in the charts for 19-inch mounting are approximately those obtained by use of the standard supports, Nos. 615, 617, 620, and 622, listed on Page F 13.

### CALCULATING VALUES FOR OTHER MOUNTINGS

The vertical and horizontal distances in the diagrams are drawn to scale. This makes it easy to read directly or to interpolate foot candles at various mounting heights, distances, or angles from the center line and top of unit.

For continuous runs the foot candles will vary inversely as the distance. For example, at three foot distance the value is approximately twice that for six feet. At nine feet, it would be one-third the value of that for three feet, etc.

For single lamp at distances greater than five times the length of the lamp, the foot candles will vary approximately inversely as the square of the distance (three times the distance, one ninth the intensity, etc.). Individual fluorescent lamps, however, are generally used close to the area to be lighted.

# FOOT CANDLES

VALUES ARE FOR WHITE LAMPS.

See page F 3 for a full explanation of these charts.

## DEEP [SEMI-CONCENTRATING] REFLECTOR



FOOT - CANDLES  
ON HORIZONTAL PLANE  
FOR ONE 40 WATT LAMP  
ALSO **CONTINUOUS SECTION**

READINGS ON CENTER LINE  
PARALLEL TO LAMP

READINGS ON CENTER LINE  
AT RIGHT ANGLES TO LAMP

6	25	80	152	166	85	13	
10	26	48	75	87	58	27	9
11	20	32	45	49	41	29	14
10	16	23	28	32	29	22	13
10	14	19	20	22	20	16	13
					52	45	35
4'	3'	2'	1'	0'	1'	2'	3'

## SHALLOW [DISTRIBUTING] REFLECTOR



FOOT - CANDLES  
ON HORIZONTAL PLANE  
FOR ONE 40 WATT LAMP

READINGS ON CENTER LINE  
PARALLEL TO LAMP

READINGS ON CENTER LINE  
AT RIGHT ANGLES TO LAMP

19"	12	58	151	168	71	16	
24"	14	51	145	125	73	23	10
36"	7	16	32	61	45	26	11
48"	10	13	25	38	29	20	13
60"	9	11	17	22	25	20	11
72"	9	10	13	15	17	15	9
				32	32	28	23
4'	3'	2'	1'	0'	1'	2'	3'

## DEEP [SEMI-CONCENTRATING] REFLECTOR



FOOT - CANDLES  
ON HORIZONTAL PLANE  
FOR ONE 15 [T-6] - 20 OR 30 WATT LAMP

READINGS ON CENTER LINE  
PARALLEL TO LAMP

READINGS ON CENTER LINE  
AT RIGHT ANGLES TO LAMP

7	59	120	42	
11	43	70	37	7
8	17	66	105	53
35	89	112	61	12
7	23	29	23	11
7	17	35	45	34
25	44	50	40	21
5	9	13	17	13
7	14	21	24	21
11	19	27	29	27
5	8	9	11	9
7	7	11	14	15
9	13	17	20	17
				13
4'	3'	2'	1'	0'

## SHALLOW [DISTRIBUTING] REFLECTOR



FOOT - CANDLES  
ON HORIZONTAL PLANE  
FOR ONE 15 [T-6] - 20 OR 30 WATT LAMP

READINGS ON CENTER LINE  
AT RIGHT ANGLES TO LAMP

19"	7	44	83	
24"	9	32	50	
36"	9	14	48	
48"	5	12	25	
60"	5	11	24	
				20
4'	3'	2'	1'	0'

## FOOT CANDLES

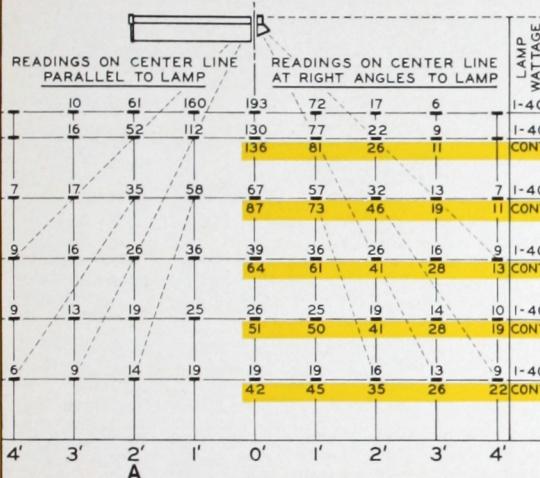
**VALUES ARE FOR WHITE LAMPS.**

*See page F 3 for a full explanation of these charts.*

## ASYMMETRIC [DIRECTIONAL] REFLECTOR



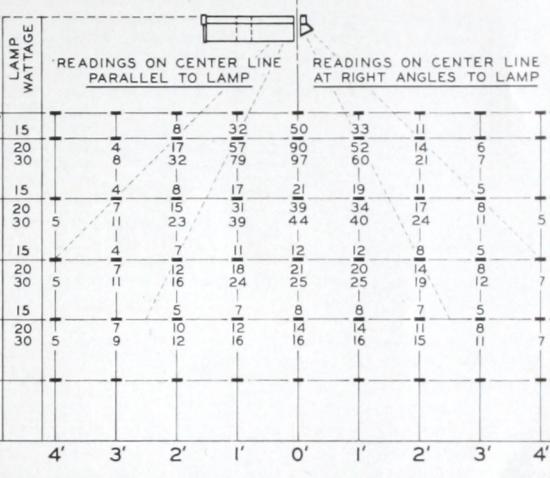
FOR ONE 40 WATT LAMP  
ALSO **CONTINUOUS SECTION**



## ASYMMETRIC [DIRECTIONAL] REFLECTOR



FOR ONE 15 [T-8] -  
20 OR 30 WATT LAMP

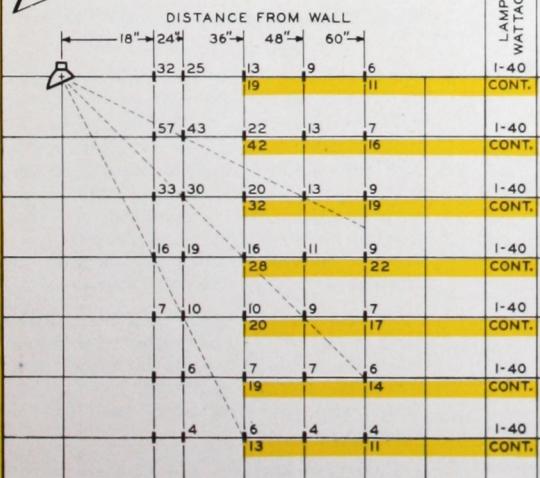


**In column above A in chart, double the values given in order to find Foot Candle intensities delivered below center of an 8-ft. section.**

## ASYMMETRIC [DIRECTIONAL] REFLECTOR



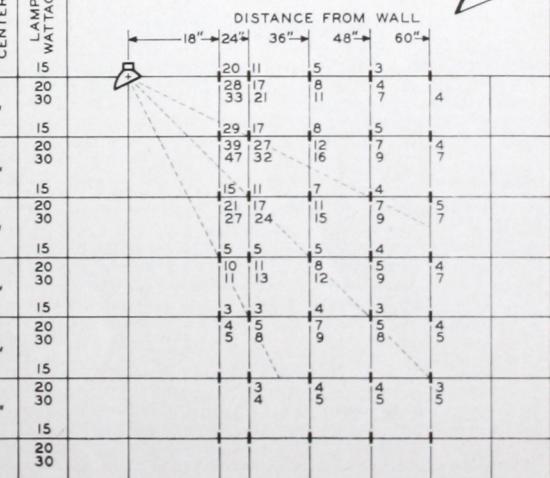
FOR ONE 40 WATT LAMP  
ALSO **CONTINUOUS SECTION**

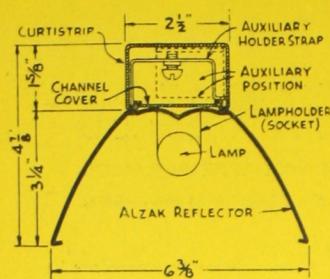


## ASYMMETRIC [DIRECTIONAL] REFLECTOR



FOR ONE 15 [T-8] -  
30 OR 30 WATT LAMP





### SEMI-CONCENTRATING REFLECTOR FIXTURE

**SEMI-CONCENTRATING REFLECTOR FIXTURES** have deep symmetrical Alzak reflectors. They are intended for general or localized direct lighting over counters, cases and work tables.

#### UNWIRED, UNASSEMBLED UNITS NOT INCLUDING AUXILIARY EQUIPMENT

Complete with lamp holders and lamp starter sockets. No lamps, ballasts, lamp starters, or wire included. *These units are of two types: Decorative type with Satin Silvertone finish, decorative end caps and closed reflector ends; Economy type with rust-resisting plated finish, plain channel end caps (two*

No. 46 extended end caps for making conduit connection), and open reflector ends.

If reflector end plates are wanted on Economy units they may be ordered separately (see page F 16).

#### DECORATIVE TYPE

BASIC DECORATIVE UNITS												EXTENSION SECTIONS			
Length	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	6'-0"	8'-0"	8'-0"	9'-0"	10'-0"	Length	8'-0"	9'-0"	10'-0"	
Lamp Watts	15	20	30	40	40	60	80	80	90	100	Lamp Watts	80	90	100	
Lamps	1-18"	1-24"	1-36"	1-48"	2-24"	2-36"	2-48"	4-24"	3-36"	5-24"	Lamps	2-48"	3-36"	5-24"	
Catalog No.	201	208	212	215	209	213	216	211	214	202	Catalog No.	216-E	214-E	202-E	

#### ECONOMY TYPE

BASIC ECONOMY UNITS												EXTENSION SECTIONS			
Length	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	6'-0"	8'-0"	8'-0"	9'-0"	10'-0"	Length	8'-0"	9'-0"	10'-0"	
Lamp Watts	15	20	30	40	40	60	80	80	90	100	Lamp Watts	80	90	100	
Lamps	1-18"	1-24"	1-36"	1-48"	2-24"	2-36"	2-48"	4-24"	3-36"	5-24"	Lamps	2-48"	3-36"	5-24"	
Catalog No.	427	428	429	430	411	412	413	414	415	416	Catalog No.	413-E	415-E	416-E	

#### WIRED, ASSEMBLED UNITS INCLUDING BALLASTS

All units listed in tables above can be furnished wired and assembled with or without power factor correction.\* One-lamp wired units are listed in table below. Wired units for two or more lamps may be ordered from table above by add-

ing the word "Wired" to the catalog number and giving voltage and power factor requirements. See Price List under heading "Wiring Prices" for further details.

#### WIRED, ASSEMBLED UNITS FOR ONE LAMP

##### Packaged (Shelf Line)

with ballast, lamp holders, lamp starter, and capacitor where high power factor is indicated. Complete except for lamp. All units wired for 60 cycle AC.

**DECORATIVE TYPE** (See description above)

Approximate Length of Unit	Lamp	Total Watts	With Low Power Factor		With High Power Factor*	
			110-125 V. Cat. No.	220-250 V. Cat. No.	110-125 V. Cat. No.	220-250 V. Cat. No.
2'-0"	20W-24"	24 1/2	208-A		208-C	
3'-0"	30W-36"	40	212-A	212-B	212-C	212-D
4'-0"	40W-48"	53	215-A	215-B	215-C	215-D

**ECONOMY TYPE** (See description above)

Approximate Length of Unit	Lamp	Total Watts	With Low Power Factor		With High Power Factor*	
			110-125 V. Cat. No.	220-250 V. Cat. No.	110-125 V. Cat. No.	220-250 V. Cat. No.
2'-0"	20W-24"	24 1/2	428-A		428-C	
3'-0"	30W-36"	40	429-A	429-B	429-C	429-D
4'-0"	40W-48"	53	430-A	430-B	430-C	430-D

\* 90% or higher. High power factor is recommended. Use low power factor units where central power factor correction is employed.

#### HOW TO ORDER CONTINUOUS RUNS

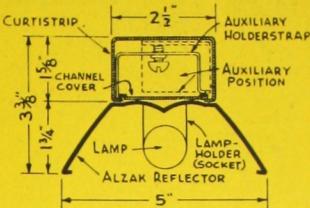
##### Extension Sections

Extension sections (see tables above) for Fluorescent CurtiStrip permit making up continuous runs with any number of lamps. Basic units come in lengths up to ten feet. When a section more than ten feet long is desired, the run is made up with one Basic unit and one or more Extension sections. The required Extension sections should be selected first and the Basic unit used to complete the run.

For example, to make up a run 20 feet long with 48" lamps, order two 8-foot extension sections (this is the only length extension section available for the 48" lamp) and order one 4-foot basic unit to complete the run.

Extension sections are similar to the corresponding Basic units except that in

## DISTRIBUTING REFLECTOR FIXTURE



**DISTRIBUTING REFLECTOR FIXTURES** have shallow symmetrical Alzak reflectors which spread the light over a wide area. They are for general direct lighting, local lighting when mounted below eye level, and for indirect lighting.

### UNWIRED, UNASSEMBLED UNITS NOT INCLUDING AUXILIARY EQUIPMENT

Complete with lamp holders and lamp starter sockets. No lamps, ballasts, lamp starters, or wire included. *These units are of two types: Decorative type with Satin Silvertone finish, decorative end caps and closed reflector ends; Economy type with rust-resisting plated finish, plain channel end caps (two*

No. 46 extended end caps for making conduit connection), and open reflector ends.

If reflector end plates are wanted on Economy units they may be ordered separately (see page F 16).

### DECORATIVE TYPE

BASIC DECORATIVE UNITS												EXTENSION SECTIONS					
Length	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	6'-0"	8'-0"	8'-0"	9'-0"	10'-0"	10'-0"	Length	8'-0"	9'-0"	10'-0"		
Lamp Watts	15	20	30	40	40	60	80	80	90	100	100	Lamp Watts	80	90	100		
Lamps	1-18"	1-24"	1-36"	1-48"	2-24"	2-36"	2-48"	4-24"	3-36"	5-24"		Lamps	2-48"	3-36"	5-24"		
Catalog No.	327	333	337	341	334	339	342	336	340	328		Catalog No.	342-E	340-E	328-E		

### ECONOMY TYPE

BASIC ECONOMY UNITS												EXTENSION SECTIONS					
Length	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	6'-0"	8'-0"	8'-0"	9'-0"	10'-0"	10'-0"	Length	8'-0"	9'-0"	10'-0"		
Lamp Watts	15	20	30	40	40	60	80	80	90	100	100	Lamp Watts	80	90	100		
Lamps	1-18"	1-24"	1-36"	1-48"	2-24"	2-36"	2-48"	4-24"	3-36"	5-24"		Lamps	2-48"	3-36"	5-24"		
Catalog No.	432	433	434	435	454	455	456	457	458	459		Catalog No.	456-E	458-E	459-E		

### WIRED, ASSEMBLED UNITS INCLUDING BALLASTS

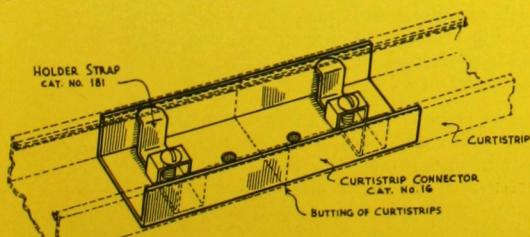
All units listed in tables above can be furnished wired and assembled with or without power factor correction.\* One-lamp wired units are listed in table below. Wired units for two or more lamps may be ordered from table above by add-

ing the word "Wired" to the catalog number and giving voltage and power factor requirements. See Price List under heading "Wiring Prices" for further details.

### HOW TO MAKE CONTINUOUS RUNS

(continued from previous page)

place of the end pieces a connector assembly is provided. With decorative type units two No. 181 Holder straps are provided so that the joint can be made without screw heads showing.



### JOINING TWO SECTIONS OF CURTISTRIP WITHOUT DRILLING

### WIRED, ASSEMBLED UNITS FOR ONE LAMP

#### Packaged (Shelf Line)

with ballast, lamp holders, lamp starter, and capacitor where high power factor is indicated. Complete except for lamp. All units wired for 60 cycle AC.

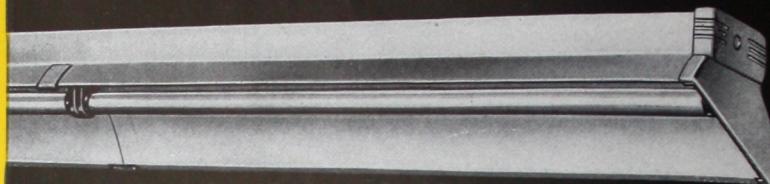
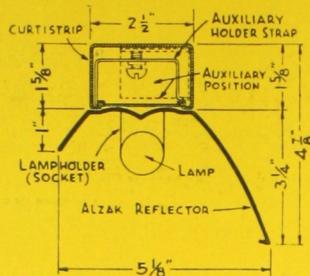
**DECORATIVE TYPE** (See description above)

Approximate Length of Unit	Lamp	Total Watts	With Low Power Factor		With High Power Factor*	
			110-125 V. Cat. No.	220-250 V. Cat. No.	110-125 V. Cat. No.	220-250 V. Cat. No.
2'-0"	20W-24"	24 1/2	333-A		333-C	
3'-0"	30W-36"	40	337-A	337-B	337-C	337-D
4'-0"	40W-48"	53	341-A	341-B	341-C	341-D

### ECONOMY TYPE (See description above)

Approximate Length of Unit	Lamp	Total Watts	With Low Power Factor		With High Power Factor*	
			110-125 V. Cat. No.	220-250 V. Cat. No.	110-125 V. Cat. No.	220-250 V. Cat. No.
2'-0"	20W-24"	24 1/2	433-A		433-C	
3'-0"	30W-36"	40	434-A	434-B	434-C	434-D
4'-0"	40W-48"	53	435-A	435-B	435-C	435-D

\* 90% or higher. High power factor is recommended. Use low power factor units where central power factor correction is employed.



## DIRECTIONAL REFLECTOR FIXTURE

**DIRECTIONAL REFLECTOR FIXTURES** have asymmetrical light distribution. They are for lighting sloping and vertical surfaces and for show window and cove applications.

### UNWIRED, UNASSEMBLED UNITS NOT INCLUDING AUXILIARY EQUIPMENT

Complete with lamp holders and lamp starter sockets. No lamps, ballasts, lamp starters, or wire included. *These units are of two types: Decorative type with Satin Silvertone finish, decorative end caps and closed reflector ends; Economy type with rust-resisting plated finish, plain channel end caps (two*

No. 46 extended end caps for making conduit connection), and open reflector ends.

If reflector end plates are wanted on Economy units they may be ordered separately (see page F 16).

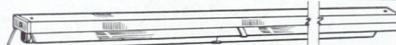
### DECORATIVE TYPE



#### BASIC DECORATIVE UNITS

Length	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	6'-0"	8'-0"	8'-0"	9'-0"	10'-0"	Length	8'-0"	9'-0"	10'-0"
Lamp Watts	15	20	30	40	40	60	80	80	90	100	Lamp Watts	80	90	100
Lamps	1-18"	1-24"	1-36"	1-48"	2-24"	2-36"	2-48"	4-24"	3-36"	5-24"	Lamps	2-48"	3-36"	5-24"
Catalog No.	<b>292</b>	<b>298</b>	<b>302</b>	<b>306</b>	<b>299</b>	<b>304</b>	<b>308</b>	<b>301</b>	<b>305</b>	<b>293</b>	Catalog No.	<b>308E</b>	<b>305E</b>	<b>293E</b>

### ECONOMY TYPE



#### BASIC ECONOMY UNITS

Length	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	6'-0"	8'-0"	8'-0"	9'-0"	10'-0"	Length	8'-0"	9'-0"	10'-0"
Lamp Watts	15	20	30	40	40	60	80	80	90	100	Lamp Watts	80	90	100
Lamps	1-18"	1-24"	1-36"	1-48"	2-24"	2-36"	2-48"	4-24"	3-36"	5-24"	Lamps	2-48"	3-36"	5-24"
Catalog No.	<b>437</b>	<b>438</b>	<b>439</b>	<b>442</b>	<b>464</b>	<b>465</b>	<b>466</b>	<b>467</b>	<b>468</b>	<b>469</b>	Catalog No.	<b>466-E</b>	<b>468-E</b>	<b>469-E</b>

### WIRED, ASSEMBLED UNITS INCLUDING BALLASTS

All units listed in tables above can be furnished wired and assembled with or without power factor correction.\* One-lamp wired units are listed in table below. Wired units for two or more lamps may be ordered from table above by add-

ing the word "Wired" to the catalog number and giving voltage and power factor requirements. See Price List under heading "Wiring Prices" for further details.

### WIRED, ASSEMBLED UNITS FOR ONE LAMP

#### Packaged (Shelf Line)

with ballast, lamp holders, lamp starter, and capacitor where high power factor is indicated. Complete except for lamp. All units wired for 60 cycle AC.

#### DECORATIVE TYPE (See description above)

Approximate Length of Unit	Lamp	Total Watts	With Low Power Factor		With High Power Factor*	
			110-125 V. Cat. No.	220-250 V. Cat. No.	110-125 V. Cat. No.	220-250 V. Cat. No.
2'-0"	20W-24"	24 1/2	<b>298-A</b>		<b>298-C</b>	
3'-0"	30W-36"	40	<b>302-A</b>	<b>302-B</b>	<b>302-C</b>	<b>302-D</b>
4'-0"	40W-48"	53	<b>306-A</b>	<b>306-B</b>	<b>306-C</b>	<b>306-D</b>

#### ECONOMY TYPE (See description above)

Approximate Length of Unit	Lamp	Total Watts	With Low Power Factor		With High Power Factor*	
			110-125 V. Cat. No.	220-250 V. Cat. No.	110-125 V. Cat. No.	220-250 V. Cat. No.
2'-0"	20W-24"	24 1/2	<b>438-A</b>		<b>438-C</b>	
3'-0"	30W-36"	40	<b>439-A</b>	<b>439-B</b>	<b>439-C</b>	<b>439-D</b>
4'-0"	40W-48"	53	<b>442-A</b>	<b>442-B</b>	<b>442-C</b>	<b>442-D</b>

\* 90% or higher. High power factor is recommended. Use low power factor units where central power factor correction is employed.

### HOW TO ORDER CONTINUOUS RUNS

#### Extension Sections

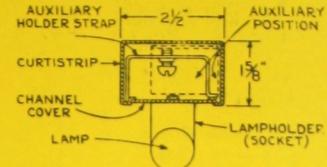
Extension sections (see tables above) for Fluorescent CurtiStrip permit making up continuous runs with any number of lamps. Basic units come in lengths up to ten feet. When a section more than ten feet long is desired, the run is made up with one Basic unit and one or more Extension sections. The required Extension sections should be selected first and the Basic unit used to complete the run.

For example, to make up a run 20 feet long with 48" lamps, order two 8-foot extension sections (this is the only length extension section available for the 48" lamp) and order one 4-foot basic unit to complete the run.

Extension sections are similar to the corresponding Basic units except that in



## REFLECTORLESS FIXTURE



**REFLECTORLESS FIXTURES** have Aluminum Bronze finish channel covers. They are suitable for certain strip lighting and decorative applications.

### UNWIRED, UNASSEMBLED UNITS NOT INCLUDING AUXILIARY EQUIPMENT

Complete with lamp holders and lamp starter sockets. No lamps, ballasts, lamp starters, or wire included. These units are of two types: *Decorative type* with Satin Silvertone finish,

and decorative end caps; *Economy type* with rust-resisting plated finish, and plain channel end caps (two No. 46 extended end caps for making conduit connection).

#### DECORATIVE TYPE

BASIC DECORATIVE UNITS												EXTENSION SECTIONS				
Length	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	6'-0"	6'-0"	8'-0"	8'-0"	9'-0"	10'-0"	Length	8'-0"	9'-0"	10'-0"	
Lamp Watts	15	20	30	40	40	60	60	80	80	90	100	Lamp Watts	80	90	100	
Lamps	1-18"	1-24"	1-36"	1-48"	2-24"	2-36"	3-24"	2-48"	4-24"	3-36"	5-24"	Lamps	2-48"	3-36"	5-24"	
Catalog No.	381	387	391	394	388	392	389	395	390	393	383	Catalog No.	395-E	393-E	383-E	

#### ECONOMY TYPE

BASIC ECONOMY UNITS												EXTENSION SECTIONS				
Length	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	6'-0"	6'-0"	8'-0"	8'-0"	9'-0"	10'-0"	Length	8'-0"	9'-0"	10'-0"	
Lamp Watts	15	20	30	40	40	60	60	80	80	90	100	Lamp Watts	80	90	100	
Lamps	1-18"	1-24"	1-36"	1-48"	2-24"	2-36"	3-24"	2-48"	4-24"	3-36"	5-24"	Lamps	2-48"	3-36"	5-24"	
Catalog No.	444	445	446	447	490	491	492	493	494	495	496	Catalog No.	493-E	495-E	496-E	

### WIRED, ASSEMBLED\* UNITS INCLUDING BALLASTS

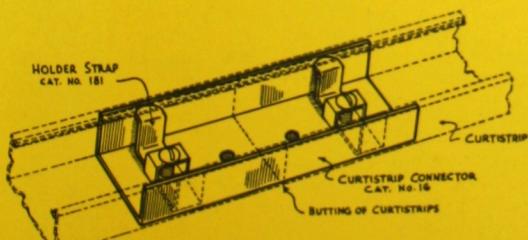
All units listed in tables above can be furnished wired and assembled with or without power factor correction.\* One-lamp wired units are listed in table below. Wired units for two or more lamps may be ordered from table above by add-

ing the word "Wired" to the catalog number and giving voltage and power factor requirements. See Price List under heading "Wiring Prices" for further details.

#### HOW TO MAKE CONTINUOUS RUNS

(continued from previous page)

place of the end pieces a connector assembly is provided. With decorative type units two No. 181 Holder straps are provided so that the joint can be made without screw heads showing.



#### JOINING TWO SECTIONS OF CURTISTRIP WITHOUT DRILLING

### WIRED, ASSEMBLED UNITS FOR ONE LAMP

#### Packaged (Shelf Line)

with ballast, lamp holders, lamp starter, and capacitor where high power factor is indicated. Complete except for lamp. All units wired for 60 cycle AC.

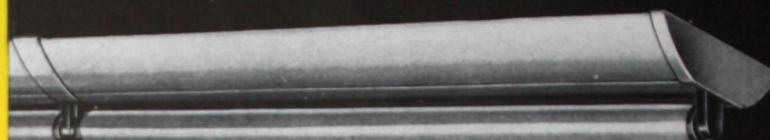
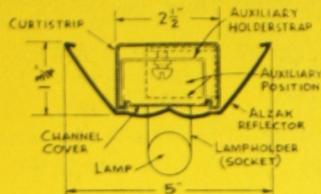
**DECORATIVE TYPE** (See description above)

Approximate Length of Unit	Lamp	Total Watts	With Low Power Factor		With High Power Factor*	
			110-125 V. Cat. No.	220-250 V. Cat. No.	110-125 V. Cat. No.	220-250 V. Cat. No.
2'-0"	20W-24"	24 1/2	387-A		387-C	
3'-0"	30W-36"	40	391-A	391-B	391-C	391-D
4'-0"	40W-48"	53	394-A	394-B	394-C	394-D

#### ECONOMY TYPE (See description above)

Approximate Length of Unit	Lamp	Total Watts	With Low Power Factor		With High Power Factor*	
			110-125 V. Cat. No.	220-250 V. Cat. No.	110-125 V. Cat. No.	220-250 V. Cat. No.
2'-0"	20W-24"	24 1/2	445-A		445-C	
3'-0"	30W-36"	40	446-A	446-B	446-C	446-D
4'-0"	40W-48"	53	447-A	447-B	447-C	447-D

\* 90% or higher. High power factor is recommended. Use low power factor units where central power factor correction is employed.



### WINGED-BACK REFLECTOR FIXTURE

**WINGED-BACK REFLECTOR FIXTURES** have a streamlined, decorative appearance. They are for strip lighting and other decorative lighting. One-lamp units have a wide application in halls and corridors. Usually mounted directly on flat surface with bolts or screws through back of CurtiStrip or with No. 9 Strap.

#### UNWIRED, UNASSEMBLED UNITS NOT INCLUDING AUXILIARIES

Complete with lamp holders and lamp starter sockets. No lamps, ballasts, lamp starters or wire included.

#### DECORATIVE TYPE

BASIC DECORATIVE UNITS												EXTENSION SECTIONS					
Length	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	6'-0"	6'-0"	8'-0"	8'-0"	9'-0"	10'-0"	Length	8'-0"	9'-0"	10'-0"		
Length	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	6'-0"	6'-0"	8'-0"	8'-0"	9'-0"	10'-0"	Length	8'-0"	9'-0"	10'-0"		
Lamp Watts	15	20	30	40	40	60	60	80	80	90	100	Lamp Watts	80	90	100		
Lamps	1-18"	1-24"	1-36"	1-48"	2-24"	2-36"	3-24"	2-48"	4-24"	3-36"	5-24"	Lamps	2-48"	3-36"	5-24"		
Catalog No.	366	372	376	379	373	377	374	380	375	378	368	Catalog No.	380-E	378-E	368-E		

#### WIRED, ASSEMBLED UNITS INCLUDING BALLASTS

All units listed in table above can be furnished wired with or without power factor correction.\* One-lamp wired units are listed in table below. Wired units for two or more lamps may be ordered from table above by adding the word "Wired" to

the catalog number and giving voltage and power factor requirements. See Price List under heading "Wiring Prices" for choice of auxiliary equipment and prices of wiring.

#### WIRED ASSEMBLED UNITS FOR ONE LAMP

##### Packaged (Shelf Line)

with ballast, lamp holders, lamp starter and capacitor where high power factor is indicated. Complete except for lamp. All units wired for 60 cycle AC.

Approx. Length of Unit	Lamps	Total Watts	With Low Power Factor		With High Power Factor*	
			110-125 V. Cat. No.	220-250 V. Cat. No.	110-125 V. Cat. No.	220-250 V. Cat. No.
1'-6"	15W-18"	19 1/2	366-A			
2'-0"	20W-24"	24 1/2	372-A			
3'-0"	30W-36"	40	376-A	376-B	376-C	376-D
4'-0"	40W-48"	53	379-A	379-B	379-C	379-D

\* 90% or higher. High power factor is recommended. Use low power factor units where central power factor correction is employed.

#### HOW TO ORDER CONTINUOUS RUNS

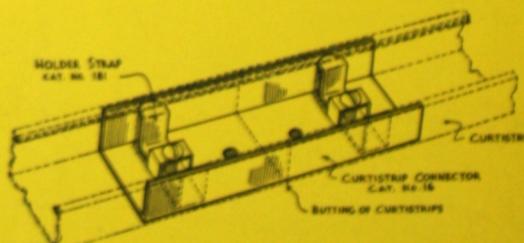
Extension Sections

Extension sections (see tables above) for Fluorescent CurtiStrip permit making up continuous runs with any number of lamps. Basic units come in lengths up to ten feet. When a section more than ten feet long is desired, the run is made up with one Basic unit and one or more Extension sections. The required Extension sections should be selected first and the Basic unit used to complete the run.

For example, to make up a run 20 feet long with 48" lamps, order two 8-foot extension sections (this is the only length extension section available for the 48" lamp) and order one 4-foot basic unit to complete the run.

Extension sections are similar to the corresponding Basic units except that in place of the

end pieces a connector assembly is provided.



Connector assembly consists of one No. 16 coupling with screws and one No. 129 reflector connector.

# FLUORESCENT LIGHTSTRIP

Listed by Underwriters' Laboratories, Inc.

For a full explanation of the foot candle charts see page F 3

FOOT - CANDLE READINGS ON HORIZONTAL PLANE							
NO. 194 LIGHTSTRIP REFLECTOR FOR ONE 15 WATT [T-8] WHITE LAMP							
READINGS ON CENTER LINE PARALLEL TO LAMP				READINGS ON CENTER LINE AT RIGHT ANGLES TO LAMP			
3	8	37	67	31	8	3	
3	11	30	46	29	10	3	
3'	2'	1'	0'	1'	2'	3'	
DISTANCE TO TOP OF CURTISTRIP							
18"							
24"							

NO. 196 LIGHTSTRIP REFLECTOR FOR ONE 30 WATT WHITE LAMP							
READINGS ON CENTER LINE PARALLEL TO LAMP				READINGS ON CENTER LINE AT RIGHT ANGLES TO LAMP			
7	33	92	113	60	14	3	
10	31	64	79	53	17	4	
3'	2'	1'	0'	1'	2'	3'	
DISTANCE TO TOP OF CURTISTRIP							
18"							
24"							

Fluorescent LightStrip is the ideal equipment for built-in fluorescent lighting—small coves, niches, troughs, and linear patterns. When decorative end caps (No. 501) and Satin Silver-tone finished channel are used LightStrip appears neat and attractive as a suspended trough.

 The Curtis ejector socket\* secures the lamp (reducing breakage), and facilitates cleaning by making lamp removal very simple.

As may be seen from the dimension drawing at right Fluorescent LightStrip is extremely compact and may be used where space is at a premium.

\* Patents pending.

## HOW TO ORDER FLUORESCENT LIGHTSTRIP

(Lamps and auxiliaries to be ordered from electrical supplier.)

The following material will be required:

One LightStrip assembly per lamp.  
Two No. 181 holder straps per ballast.  
Proper lengths of CurtiStrip (Listed on Page F 15). For dimensions see below.  
Fill-in cover (Page F 15), CurtiStrip end caps (Page F 16), and couplings (Page F 15), as required.

For exposed installations specify Satin Silvertone finish CurtiStrip; for concealed installations unfinished channel may be used. Supports may be attached to end, back, or sides of CurtiStrip, see pages F 12 and F 13.

### SPECIFICATIONS

**Dimensions:** Overall length of channel to be used with No. 194 reflector assembly is  $21\frac{1}{4}$  inches; with No. 196,  $39\frac{1}{4}$  inches. Ballasts may be carried in the same channel adjacent to the lamp, which will necessitate additional CurtiStrip and cover, approximately the length of the ballast.

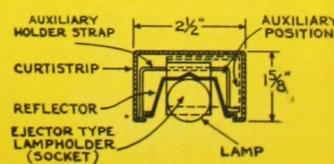
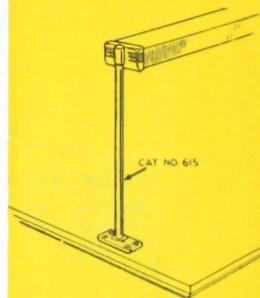
Each LightStrip Assembly, Cat. No. 194-N and Cat. No. 196-N, includes:

- 1 steel reflector with reflecting surface of Fluracite, a heat-treated permanent white finish.
- 2 Curtis ejector sockets\*.
- 2 pieces of insulating fiber.
- 4 machine screws with nuts.
- 1 plain end spacer.
- 1 end spacer with lamp starter socket.

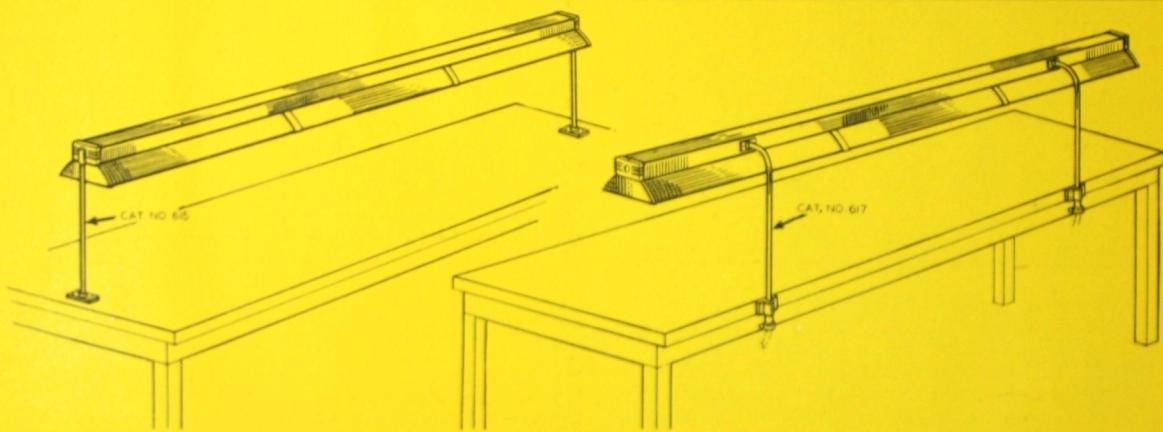
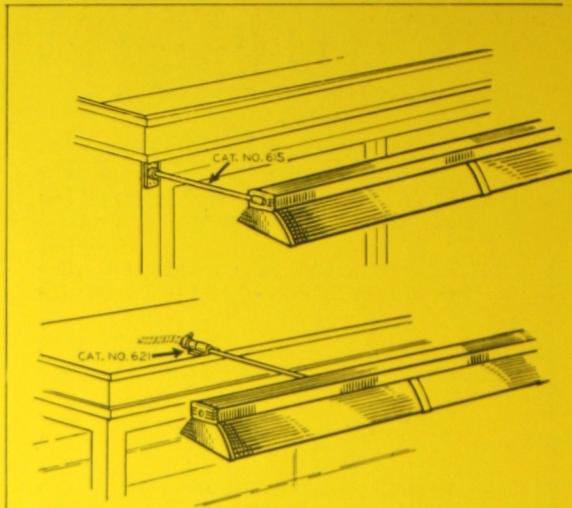
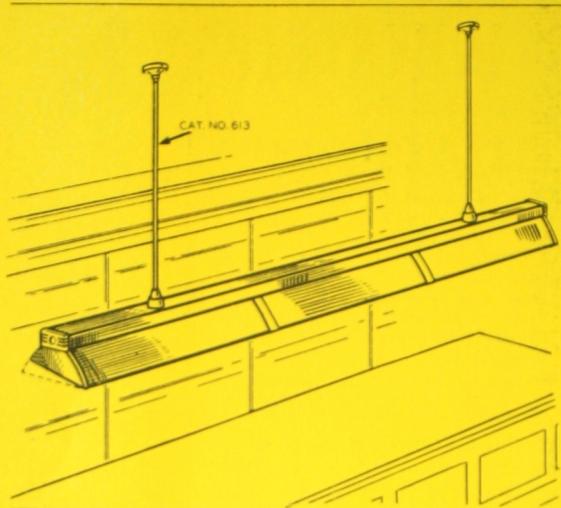
**Catalog No. 194-N**—for 18" 15-watt T-8 fluorescent lamp.

**Catalog No. 196-N**—for 36" 30-watt T-8 fluorescent lamp.

Use Catalog Nos. 194 and 196 in place of 194-N and 196-N where replaceable lamp starters will not be used.



# DIRECT LIGHTING APPLICATIONS



## MOUNTING AND SUSPENSION EQUIPMENT

*Listed by Underwriters' Laboratories, Inc.*

Supports for fluorescent CurtiStrip are to be ordered separately by catalog number as required. All supports finished Satin Silvertone to match fixtures.

To specify correct supports consider: 1) which group of supports has the desired type of wall, ceiling, or case-mounting device; 2) which of the two supports in the group has the desired type fixture

### SURFACE MOUNTING

Fixtures may be surface mounted by bolts or screws through the back of the Channel or by use of the No. 9 Strap applied to any flat surface.



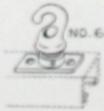
SCREW



No. 9 STRAP

### FOR CHAIN AND PIPE MOUNTING

For chain suspension use Hook Fitting, No. 611. For  $\frac{3}{8}$ " or  $\frac{1}{2}$ " iron pipe mounting to top or side of CurtiStrip Channel, use Reducer Fitting, No. 612.

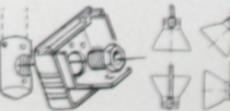


attachment (stationary or adjustable). Note that holes for supports attaching directly to side or back of CurtiStrip channel are to be made on the job.

Each 10' or shorter section should be supported at two or more points; for continuous runs supports should be not more than 10' apart. Bracket supports should be not more than 5' apart.

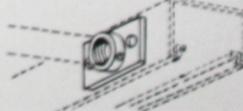
### ANGLE FITTING

Supports with Angle Fitting permit mounting CurtiStrip at various angles. They attach to the decorative CurtiStrip End Cap, No. 501, at each end of fixture.



### SIDE FITTING

Each group of supports has one design with a fitting to be attached to the side or the back of CurtiStrip Channel by drilling holes as required.



# SUPPORTS AND HANGERS

Listed by Underwriters' Laboratories, Inc.

## SELF-ALIGNING PENDANT SUPPORTS

**Cat. No. 613**—For mounting to outlet box in ceiling for direct lighting only. Use two supports for each section of Fluorescent CurtiStrip up to 10 feet. Lower end of hanger bolts to back of channel.

Standard suspension is 40" to top of CurtiStrip. May be cut to any shorter length without threading. If longer suspension is desired, it can be supplied at slight additional cost. (See price list.)

**Cat. No. 614**—with angle fitting. For mounting to outlet box in ceiling for direct or indirect lighting. Suspension 21" to top of CurtiStrip.

## HORIZONTAL OR PEDESTAL SUPPORTS

Finished pipe included in these supports has a standard length of 18". In horizontal position, supports permit use of Fluorescent CurtiStrip for direct or indirect lighting. Brackets should be spaced not more than 6' apart.

**Cat. No. 615**—with angle fitting. For mounting on tables, counters, walls, wall cases, etc. Includes  $\frac{3}{8}$ " iron pipe connector, flexible conduit connector, and bushing for cord connection.

**Cat. No. 616**—with angle fitting. For mounting to outlet box in wall or other vertical surfaces. Slip-ring style canopy.

**Cat. No. 618**—For mounting on walls, wall cases or other vertical surfaces. Connects to side of CurtiStrip channel. Includes  $\frac{3}{8}$ " iron pipe connector, flexible conduit connector, and bushing for cord connection. One mounting bracket is suggested for each 18" or 24" section; two for longer sections.

**Cat. No. 619**—For mounting to outlet box in wall or other vertical surfaces. Connects to side of CurtiStrip channel. Includes slip-ring style canopy. One mounting bracket is suggested for each 18" or 24" section; two for longer sections.

**Cat. No. 621**—Similar to No. 618 except for mounting on top surface of wall case or other horizontal surfaces. Extension is adjustable.

**Cat. No. 622**—with angle fitting. Similar to No. 615 except for mounting on top surface of wall case or side of table or counter. Extension adjustable without cutting pipe.

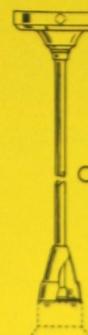
## CURVED ARM PEDESTAL TYPE

Mounting height above table is adjustable to a maximum of 18" to top of CurtiStrip. Uprights should be spaced not more than 6 ft. apart.

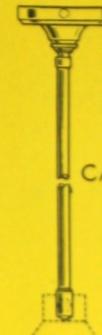
**Cat. No. 617**—For mounting to top edges of table, case, or counter. Connects to side of CurtiStrip. Includes  $\frac{3}{8}$ " iron pipe connector, flexible conduit connector, and bushing for cord connection. Two or three brackets are suggested for each fixture up to 10'.

**Cat. No. 620**—with angle fitting. Same as No. 617 except that it connects to CurtiStrip end casting (Cat. No. 501).

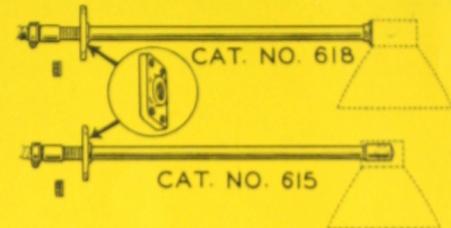
## PENDANTS



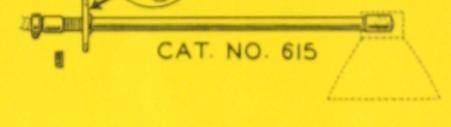
CAT. NO.  
613



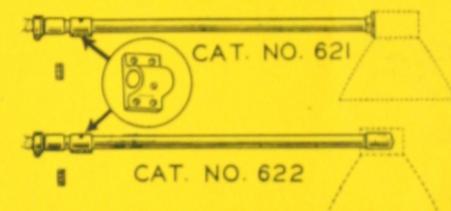
CAT. NO.  
614



CAT. NO. 618



CAT. NO. 615



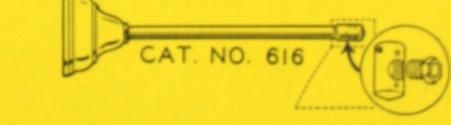
CAT. NO. 621



CAT. NO. 622

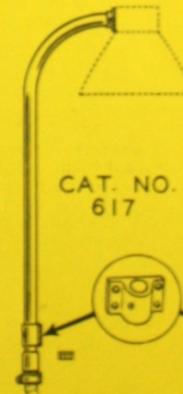


CAT. NO. 619

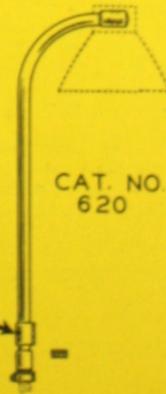


CAT. NO. 616

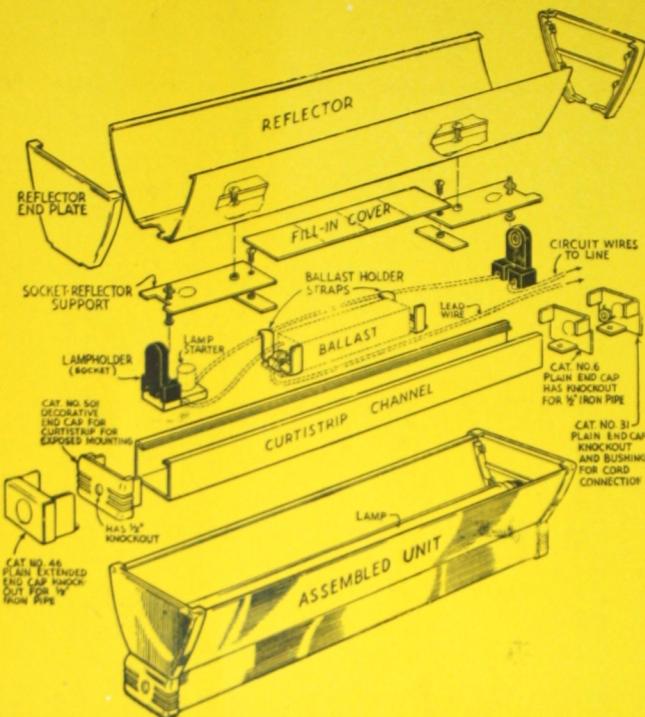
## CURVED PEDESTALS



CAT. NO.  
617



CAT. NO.  
620



## CHECK LIST

### For making complete fixtures from stock parts

For the exceptional installation, Curtis offers an ordering program which enables the contractor to construct "custom-made" Fluorescent CurtiStrip fixtures *from stock parts*. Stock parts are listed on pages F 15, 16 and 17. To be certain you have ordered a complete fixture, use check list below.

**1. CURTISTRIP CHANNEL** For length of channel required, add together the nominal lamp lengths. For example, two 36-inch lamps require 72 inches of CurtiStrip. No additional channel need be provided for end caps, reflector connectors, or for reflector end plates. CurtiStrip is available in two finishes: Satin Silvertone and Plain Rust-resistant.

**2. COUPLINGS** For continuous runs with more than one section of CurtiStrip, order one No. 16 coupling for every joint in channel section. To avoid screwheads showing on back of CurtiStrip, order also two No. 181 holder straps to clamp coupling to channel.

**3. LAMPHOLDERS (SOCKETS) AND STARTER SOCKET** One No. 89 lamp holder and one No. 193 lamp holder with starter socket are required per lamp when replaceable lamp starter is used. Two No. 89 lamp holders are required per lamp when starter switch is in auxiliary housing.

**4. BALLAST HOLDER STRAPS** Two No. 181 straps should be used when a ballast or compensator is mounted in CurtiStrip.

**5. SOCKET-REFLECTOR SUPPORTS** Two supports (one catalog number) are necessary for each lamp section of the fixture. Available in three finishes.

**6. FILL-IN COVER** When no reflector is used, fill-in cover is necessary to close the space between

the two socket-reflector supports. Where a reflector is used with the lamp, no fill-in cover is needed because the bottom of the reflector itself closes the spaces between the two socket-reflector supports. Available in three finishes.

**7. CURTISTRIP END CAPS** Two end caps per fixture are required to close the ends of channel sections. There are two general types available: decorative and plain.

**8. REFLECTORS** One reflector per lamp is required, except for the reflectorless type of fixture. Reflectors may be mounted on CurtiStrip with or without reflector end plates with any desired spacing between units. All reflectors are of Alzak aluminum with Satin Silvertone finish.

**9. REFLECTOR END PLATES** Two reflector end plates per fixture are recommended to close reflector ends.

**10. REFLECTOR CONNECTORS** One reflector connector per reflector joint is required.

**11. BALLASTS AND STARTERS** One ballast is needed per lamp (except when two-lamp ballast is used). One lamp starter is required for each lamp on AC circuits. Ballasts and starters are not regularly sold by Curtis except with wired fixtures. (Inquire of your lamp supplier concerning DC control equipment.)

**12. LAMPS** Order from the regular sources of electrical supplies. Not included with any fixtures.

# STOCK PARTS FOR "CUSTOM-MADE" FIXTURES

*Listed by Underwriters' Laboratories, Inc.*

## CURTISTRIP CHANNEL AND COVER

Channel is available in lengths convenient for use with fluorescent equipment. Channel and cover are made of 20 gauge cold-rolled steel, size  $2\frac{1}{2}$ " wide and  $1\frac{1}{8}$ " deep. All covers are machine-scored at intervals of 3" along the entire length. Thus it is easy to break off any length desired in multiples of 3", and thereby provide exact lengths for various size lamps.

### Unfinished Rust-resisting Channel

Holes are provided at end of each length to facilitate attachment of end caps.

Cat. No.	Description	Length	Std. Pkg.
<b>1</b>	Channel with cover	10'	10 lengths
<b>1-A</b>	Channel only	10'	10 lengths
<b>1-B</b>	Cover only	10'	10 lengths
<b>591</b>	Channel only	18"	10 lengths
<b>593</b>	Channel only	24"	10 lengths
<b>596</b>	Channel only	36"	10 lengths
<b>597</b>	Channel only	48"	10 lengths
<b>598</b>	Channel only	72"	10 lengths
<b>599</b>	Channel only	96"	10 lengths
<b>601</b>	Channel only	108"	10 lengths



Satin Silvertone Finished Channel and Cover\*

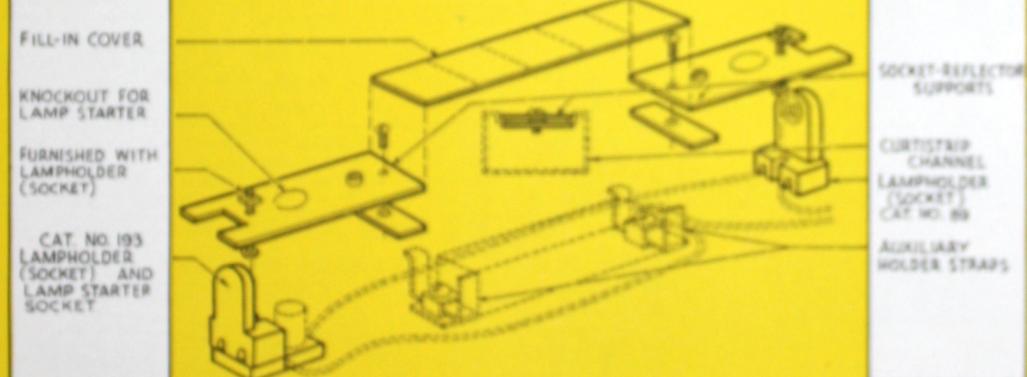
Cat. No.	Description	Length	Std. Pkg.
<b>562</b>	Channel only	18"	10 lengths
<b>563</b>	Channel only	2'	10 lengths
<b>564</b>	Channel only	3'	10 lengths
<b>565</b>	Channel only	4'	10 lengths
<b>566</b>	Channel only	6'	5 lengths
<b>567</b>	Channel only	8'	5 lengths
<b>568</b>	Channel only	9'	5 lengths
<b>1-C</b>	Channel only	10"	5 lengths
<b>572</b>	Cover only	12"	10 lengths
<b>573</b>	Cover only	24"	10 lengths

\* For use with "Fluorescite" Ballast. Aluminum Lacquer finish, or unfinished, see listing below "Fill-in-Cover."

## CURTISTRIP COUPLING

CAT. No. 16

Cat. No. 16 coupling for connecting two pieces of CurtiStrip channel.



## BALLAST HOLDER STRAP CAT. No. 181

Two ballast holder straps are needed when ballast is mounted in CurtiStrip, except when a large cross-section 30- or 40-watt two-lamp ballast is used, which requires a separate housing.

## SOCKET REFLECTOR SUPPORTS

Each catalog number includes a pair of these supports. The same set of supports is used with all size lamps. Supports are available in three finishes.

Cat. No.	Finish	Std. Pkg.
<b>782</b>	Unfinished Rust-resisting	10 sets
<b>787</b>	Aluminum Lacquer	10 sets
<b>788</b>	"Fluorescite" (White)	10 sets

## FILL-IN COVER

All cover is machine-scored at 3" intervals. To close the space between the two socket-reflector supports (each support is  $4\frac{1}{2}$ " long), when reflectors are not used on fixtures, fill-in cover is required in the following lengths depending on the size lamp used:

- 9" for 15-watt lamp
- 12" for 20-watt lamp
- 27" for 30-watt lamp
- 39" for 40-watt lamp

Fill-in Cover is available in three finishes.

Cat. No.	Length	Description	Std. Pkg.
<b>1-B</b>	18"	Unfinished	10 lengths
<b>797</b>	29"	Aluminum Lacquer	20 lengths
<b>798</b>	39"	"Fluorescite" (White)	20 lengths

# STOCK PARTS FOR "CUSTOM-MADE" FIXTURES

Listed by Underwriters' Laboratories, Inc.

## CURTISTRIP END CAPS



No. 501, Decorative End Cap, finished Satin Silvertone, is cast in a modern tailored design. This end cap gives a finished appearance and provides means of support where fixture is suspended from ends of channel with hangers using angle fittings.

Nos. 6, 31, and 46, Plain End Caps, are rust-resisting plated. Use No. 46 in place of No. 6 where wire connection is made through end of CurtiStrip and fluorescent socket is to be even with end of channel.

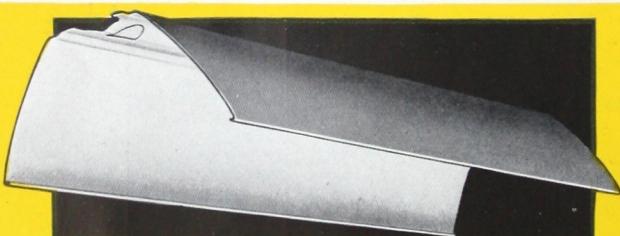
Cat. No.	Description	Std. Pkg.
501*	Decorative End Cap	10
6†	Plain End Cap	10
31†	Plain Bushed End Cap	10
46†	Extended End Cap which extends $5\frac{1}{8}$ " beyond end of channel	10

\* Finished Satin Silvertone.

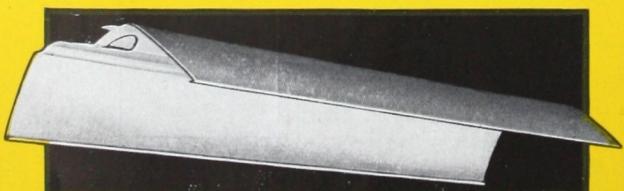
† Bright Cadmium.

## FLUORESCENT REFLECTORS

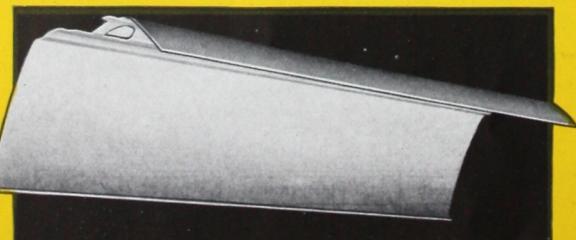
Made of Alzak aluminum. Fluorescent CurtiStrip reflectors are highly efficient. The engineered contours of each reflector type direct a maximum amount of light upon the plane to be illuminated.



DEEP SYMMETRICAL REFLECTOR



SHALLOW SYMMETRICAL REFLECTOR



ASYMMETRICAL REFLECTOR

## (Fluorescent Reflectors cont.)

Cat. No.	Type	Length	Distribution	Std. Pkg.
102	Deep Sym.	18"	Semi-Conc.	10
103	Deep Sym.	24"	Semi-Conc.	10
104	Deep Sym.	36"	Semi-Conc.	10
105*	Deep Sym.	48"	Semi-Conc.	10
114	Shallow Sym.	18"	Distributing	10
115	Shallow Sym.	24"	Distributing	10
116	Shallow Sym.	36"	Distributing	10
117	Shallow Sym.	48"	Distributing	10
106	Asymmetrical	18"	Directional	10
107	Asymmetrical	24"	Directional	10
108	Asymmetrical	36"	Directional	10
109	Asymmetrical	48"	Directional	10

\* Louver available, see next page.

## REFLECTOR END PLATES



These die-cast end plates close the ends of reflectors, hold reflectors rigid, and harmonize with CurtiStrip end caps.

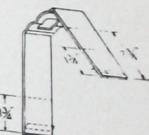
Cat. No.	Type	Std. Pkg.
502* or 6422†	Deep Symmetrical	10
503* or 6423†	Shallow Symmetrical	10
504* or 6424†	Asymmetrical (right end)	10
505* or 6425†	Asymmetrical (left end)	10

\* Finished Satin Silvertone.

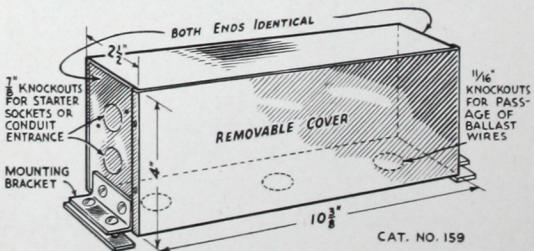
† Unfinished Die Castings.

## REFLECTOR CONNECTOR CAT. No. 129

In continuous runs of all types of reflector assemblies between reflectors, connectors should be used to cover reflector joint. The connector is a soft metal strap which fits over two adjoining sockets and is bent over reflector, making a neat joint and preventing light leakage. No. 129 is used with all types of reflectors.



## TWO-LAMP BALLAST HOUSING CAT. No. 159

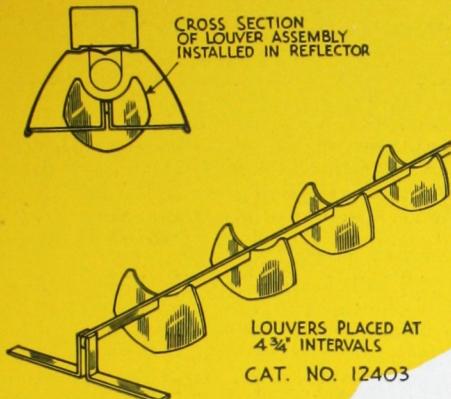


No. 159 ballast housing is for use with the large cross-section 30- or 40-watt fluorescent two-lamp ballast. Other ballasts, including the "long" type two-lamp ballasts, mount directly in channel. Removable cover means easy access to ballast.

This housing will attach to CurtiStrip or may be placed at any convenient location and the wiring carried to CurtiStrip in flexible conduit. All necessary screws are furnished.

Housing is finished bright cadmium to match Satin Silvertone channel and reflectors.

# LOUVER ASSEMBLY for 48" lamp



*Louver Assembly, Cat. No. 12403, for 48" deep symmetrical reflector, Cat. No. 105, has ten fins, mounted at intervals of 4 3/4". Louvers add a decorative touch and reduce brightness.*

The assembly is supported in the No. 105 Alzak reflector by steel arms at the end of the assembly which rest on the lips of the reflector. This louver assembly is made of steel with aluminum lacquer finish. Standard package is two assemblies, Cat. No. 12403, to a carton.



No. 9



Nos. 19, 19-BX



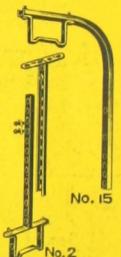
No. 9



No. 13



No. 24



No. 2



No. 20



No. 21



No. 23



No. 12



No. 14

## OTHER CURTISTRIP PARTS IN STOCK

*Listed by Underwriters' Laboratories, Inc.  
ILLUSTRATED IN COLOR PANEL AT RIGHT*

Many of the standard fittings which were designed for other applications of Curti-Strip are useful in fluorescent lighting. Some of these fittings are listed below, along with suggestions for their use. Metal parts are cadmium plated to resist rust, but do not have the fine Satin Silvertone finish.

### SUPPORTS FOR PLAIN PLATED CURTISTRIP

*(For regular Fluorescent CurtiStrip hangers and supports see Pages F 12 and F 13)*

No. 9—Strap. For holding CurtiStrip against any flat surface. May be used with the Fluorescent reflectors or complete units listed on previous pages. No. 9 Strap fits between the reflector and the channel.

No. 13—Bracket. To hang CurtiStrip on pipe or chain hanger.

No. 24—Bracket Assembly. Includes 6" nipple and cast back plate.

No. 2—Universal Hanger. Includes two-piece perforated hanger, one strap, four angle brackets and six bolts.

No. 15—Hanger. For mounting Curti-Strip on transom or side wall.

### RECEPTACLES, etc.

These fittings are of two-piece construction and clamp to lips of CurtiStrip. Wiring is easy and rapid.

No. 19—Nipple Attachment. For  $\frac{3}{8}$ " conduit or fittings. By using the No. 19 fittings between reflectors, a pipe hanger or support can be connected directly to the front (or open) side of CurtiStrip channel.

No. 19-BX—Attachment. Similar to No. 19 but for  $\frac{1}{2}$ " BX or Greenfield. Also for connecting  $\frac{1}{2}$ " pipe by means of close nipple.

No. 20—Single Receptacle Plate. Takes all standard receptacles.

No. 21—Switch Plate. Takes standard toggle switch.

No. 23—Duplex Receptacle Plate. Takes all standard receptacles.

You can mix filament and fluorescent lamps with CurtiStrip. Use No. 5 or No. 5-A sockets or "Lumiline LightStrip."

### OTHER FITTINGS

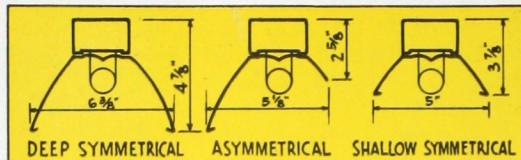
No. 12—Service Box. For connecting  $\frac{1}{2}$ " to  $\frac{3}{4}$ " conduit to CurtiStrip.

No. 14—Adjustable Elbow. For angles of 70° to 140°.

# FLUORESCENT INDUSTRIAL FIXTURES

Curtis Industrial fixtures have been designed to meet the illumination requirements of modern industry and to simplify the factory wiring problem.

**Three efficient reflector shapes** are available for all units. This permits selection of the proper dis-



tribution for each job. Use the foot candle charts below and on page F-3 to help in selecting the *right* reflector.

**Economy in Wiring** is achieved by the "End-to-end" principle. Each fixture or continuous run can be wired for a single outlet. The wiring channel, incorporated in the fixture, carries the necessary wires for the entire length of the run.

## "END-TO-END" TWO-LAMP UNITS

"End-to-end" two-lamp industrial units are designed for use with the two-lamp high power factor ballast. (Note: A "long" ballast which can be carried in CurtiStrip must be used; several makes are available.) Fixtures are listed *wired* and *unwired* in both "Regular" and "Economy" types. All units are completely assembled, but unwired units are less lamps, ballasts, lamp starters and wire.

**Basic Units** are complete fixtures 8 feet long for two 40-watt fluorescent lamps, or they may be coupled to one or more extension sections to make up a continuous run.

**Extension Sections** are supplied with connecting fittings in place of the end pieces and each extension section adds 8 feet and two 40-watt lamps to the run.

**Specifications:** Reflecting Surface—Alzak Aluminum. Total Watts: Per two-lamp section (Basic Unit or Extension) 97 1/2. Finish: Bright Cadmium on "Regular" and "Economy" units.

**Note:** All units have plain channel ends as illustrated, but Economy units are less reflector ends. All units include mounting hooks and knockouts for conduit, *sockets* and starter sockets. Wired units are complete with wire, ballast, starting compensator, and lamp starter, but less lamps. Ballast used is the "long" type two-lamp ballast which fits in the CurtiStrip channel.

## CONTINUOUS RUNS

Order one Basic unit and one or more Extension sections. To join, one end cap and one reflector end plate are removed from the basic unit, extension sections are added to the required length, and the removed end pieces are replaced at the end of the run.

## PACKAGED ONE-LAMP UNITS

These are Alzak reflector units intended for conduit suspension. Finish is bright cadmium. For other packaged units see pages F 6 to F 9.

### FOOT CANDLE CHART

For an explanation of the foot candle tables see page F 3. For the asymmetric (directional) two-lamp End-to-end reflector units the foot candles under the center of the unit will be twice those in column A in chart on page F 5. For a continuous run, the values will be the same on horizontal and vertical planes as those given in the charts on page F 5.

#### FOOT - CANDLE READINGS ON HORIZONTAL PLANE

FOR TWO 40 WATT WHITE LAMPS END TO END  
ALSO CONTINUOUS SECTION

#### TWO LIGHT INDUSTRIAL FIXTURE DEEP [SEMI-CONCENTRATING] REFLECTORS

READINGS ON CENTER LINE PARALLEL TO LAMPS				READINGS ON CENTER LINE AT RIGHT ANGLES TO LAMPS				36°
2	12	52	96	96	41	5.5	108	
5.5	14	31	46	46	36	14	4	60°
6.5	12	19	25	28	23	14	7.5	84°
8'	6'	4'	2'	0'	2'	4'	6'	8'
								CONT.
				108	45	7		
				62	45	20	6	3
				40	35	21	12	6

#### TWO LIGHT INDUSTRIAL FIXTURE SHALLOW [DISTRIBUTING] REFLECTORS

READINGS ON CENTER LINE PARALLEL TO LAMPS				READINGS ON CENTER LINE AT RIGHT ANGLES TO LAMPS				64
2	8.5	35	64	73	39	11	2.5	
4	10	21	31	35	28	14	6	1
5.5	9.5	14	20	43	35	19	9	3
8'	6'	4'	2'	0'	2'	4'	6'	8'
								CONT.
				73	39	11	4	2
				43	35	19	9	5
				32	28	16	13	8

## TWO-LAMP END TO END FIXTURE

REGULAR *End to End* INDUSTRIAL FIXTURES

							
Reflector Type	Basic Units for Two 40-Watt Lamps			Extension Sections for Two 40-Watt Lamps			
	Cat. No. Unwired †	Cat. No.* Wired for 110-125 Volts	Cat. No.* Wired for 220-250 Volts		Cat. No. Unwired †	Cat. No.* Wired for 110-125 Volts	Cat. No.* Wired for 220-250 Volts
Deep Symmetrical	<b>644</b>	<b>644C</b>	<b>644D</b>		<b>644E</b>	<b>644EC</b>	<b>644ED</b>
Shallow Symmetrical	<b>645</b>	<b>645C</b>	<b>645D</b>		<b>645E</b>	<b>645EC</b>	<b>645ED</b>
Asymmetrical	<b>646</b>	<b>646C</b>	<b>646D</b>		<b>646E</b>	<b>646EC</b>	<b>646ED</b>

ECONOMY TYPE *End to End* INDUSTRIAL FIXTURES

							
Reflector Type	Basic Units for Two 40-Watt Lamps			Extension Sections for Two 40-Watt Lamps			
	Cat. No. Unwired †	Cat. No.* Wired for 110-125 Volts	Cat. No.* Wired for 220-250 Volts		Cat. No. Unwired †	Cat. No.* Wired for 110-125 Volts	Cat. No.* Wired for 220-250 Volts
Deep Symmetrical	<b>647</b>	<b>647C</b>	<b>647D</b>		<b>644E</b>	<b>644EC</b>	<b>644ED</b>
Shallow Symmetrical	<b>648</b>	<b>648C</b>	<b>648D</b>		<b>645E</b>	<b>645EC</b>	<b>645ED</b>
Asymmetrical	<b>649</b>	<b>649C</b>	<b>649D</b>		<b>646E</b>	<b>646EC</b>	<b>646ED</b>

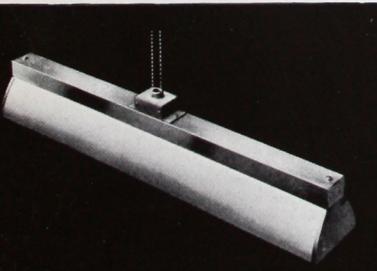
\* With high power factor two lamp ballast. Complete with wire and auxiliary equipment but less lamps.

† Assembled.

ONE-LAMP INDUSTRIAL UNITS *Packaged*  
FOR CONDUIT SUSPENSION

Units are wired and complete with ballast and lamp starter in channel for use with one lamp. (Lamp not included.) Fixtures for 24", 36", or 48" lamp are available with any one of the three reflector shapes.

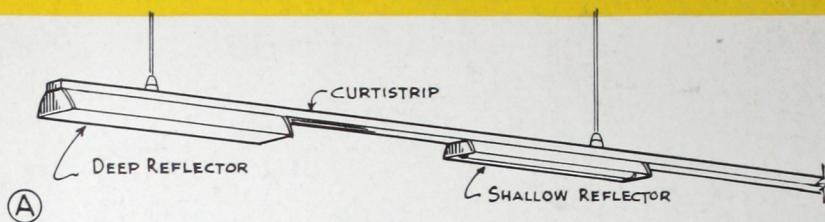
Each end of the channel is closed by a plain end cap with a knockout. Units are supplied with a fitting for supporting from  $\frac{1}{2}$ " conduit (conduit not included). This fitting can also be used for splice box.



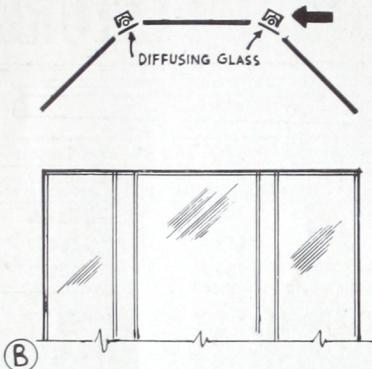
Reflector Type	Lamp Size	Lamp Watts	Wired One-Lamp Units			
			Cat. Nos.	Cat. No. For Low Power Factor	Cat. No. For High Power Factor*	Cat. No. For Low Power Factor
				For 110-125 Volts	For 220-250 Volts	For 110-125 Volts
DEEP SYMMETRICAL	1-24"	20	<b>651</b>	<b>651A</b>		<b>651C</b>
SHALLOW SYMMETRICAL	1-36"	30	<b>652</b>	<b>652A</b>	<b>652B</b>	<b>652C</b>
ASYMMETRICAL	1-48"	40	<b>653</b>	<b>653A</b>	<b>653B</b>	<b>653C</b>
DEEP SYMMETRICAL	1-24"	20	<b>670</b>	<b>670A</b>		<b>670C</b>
SHALLOW SYMMETRICAL	1-36"	30	<b>671</b>	<b>671A</b>	<b>671B</b>	<b>671C</b>
ASYMMETRICAL	1-48"	40	<b>672</b>	<b>672A</b>	<b>672B</b>	<b>672D</b>
DEEP SYMMETRICAL	1-24"	20	<b>688</b>	<b>688A</b>		<b>688C</b>
SHALLOW SYMMETRICAL	1-36"	30	<b>689</b>	<b>689A</b>	<b>689B</b>	<b>689C</b>
ASYMMETRICAL	1-48"	40	<b>690</b>	<b>690A</b>	<b>690B</b>	<b>690D</b>

\* 90% or higher. High power factor is recommended. Use low power factor units where central power factor correction is employed.

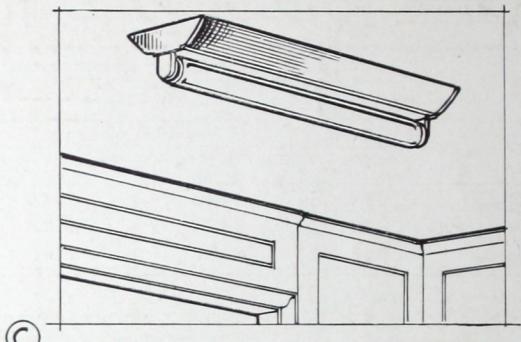
# SOME APPLICATIONS OF FLUORESCENT CURTISTRIP



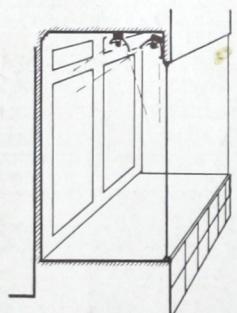
SPACED MOUNTING OF REFLECTORS ON CURTISTRIP



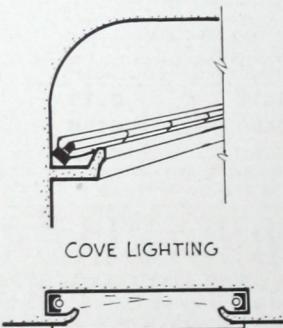
FITTING MIRROR



CEILING LIGHT



SMALL SHOW WINDOW



COVE LIGHTING



DISPLAY NICHE



SILHOUETTE SIGN  
AND CASE

## MISCELLANEOUS CONCEALED LIGHTING APPLICATIONS

(A) Any reflector may be used on any spacing on CurtiStrip channel in connection with the variety of hangers available.

Reflectors may be used with or without the reflector end plates, as desired. These reflector end plates fit against the CurtiStrip cover or fit into the decorative CurtiStrip end cap. For industrial use they may be used

with other end caps.

(B) Either Fluorescent LightStrip or symmetrical reflectors may be used for this application. Illustration shows Fluorescent LightStrip.

(C) An individual winged-back type unit is attractive for lobby or corridor use.

# Curtis Lighting

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CHICAGO

Representatives in all principal cities

New York

Serial 1040

Toronto

Printed in U.S.A.